



Substitute for form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 16

Complete if Known

Application Number	10/775,484
Filing Date	02-10-2004
First Named Inventor	John Santhoff
Art Unit	2611
Examiner Name	Don Nguyen Vo
Attorney Docket Number	00119

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 5822678	10-13-1998	Evanyk	
		US- 5828946	10-27-1998	Feisullin et al.	
		US- 5832035	11-03-1998	Fullerton	
		US- 5835054	11-10-1998	Warhus et al.	
		US- 5896556	04-20-1998	Moreland et al.	
		US- 5960031	09-28-1999	Fullerton et al.	
		US- 5963581	10-05-1999	Fullerton et al.	
		US- 5944842	08-31-1999	Propp et al.	
		US- 5995534	11-30-1999	Fullerton et al.	
		US- 6140911	10-31-2000	Fischer et al.	
		US- 6218979	04-17-2001	Barnes et al.	
		US- 6275045	08-14-2001	Eloy	
		US- 6360075	03-19-2002	Fischer et al.	
		US- 6384773	05-07-2002	Martin et al.	
		US- 6430208	08-06-2002	Fullerton et al.	
		US- 6437832	08-20-2002	Grabb et al.	
		US- 6441695	08-27-2002	Flake	
		US- 6492904	12-10-2002	Richards	
		US- 6496104	12-17-2002	Kline	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ⁶
		Country Code ³ Number * Kind Code ⁴ (if known)				
		WO 02/31986	04-18-2002	XtremeSpectrum		
		WO 02/49245	06-20-2002	Pulse-LINK		
		WO 96/09694	03-28-1996	Fullerton et al.		
		EP 1414241	04-28-2004	Di Zenobio		

Examiner Signature	/Don Vo/	Date Considered	02/28/2008
--------------------	----------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 16**Complete if Known**

Application Number	10/775,484
Filing Date	February 10, 2004
First Named Inventor	John Santhoff
Art Unit	2611
Examiner Name	Don Nguyen Vo
Attorney Docket Number	00119

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 6497656	12-24-2002	Evans	
		US- 6505032	04-15-2003	Fullerton	
		US- 6512474	01-28-2003	Pergande	
		US- 6515622	02-04-2003	Izadpanah et al.	
		US- 6529166	03-04-2003	Kanamaloru	
		US- 6539068	03-25-2003	Hebron et al.	
		US- 6611223	08-26-2003	Low et al.	
		US- 6678321	01-13-2004	Graham et al.	
		US- 6690247	02-10-2004	Kinitis et al.	
		US- 6721298	04-13-2004	Vrila-Coleiro	
		US- 6782048	08-24-2004	John Santhoff	
		US- 6847267	01-25-2005	Flake et al.	
		US- 6865256	03-08-2005	Descamps et al.	
		US- 6,909,877	06-21-2005	Rifheart et al.	
		US- 6,968,130	11-01-2005	Jim-Yi Pan	
		US- 7,013,145	03-14-2006	Michael Centore III	
		US- 7,092,693	08-01-2006	Boyd et al.	
		US- 7,167,525	01-01-2007	Santhoff et al.	
		US- 2002/0075972	06-2002	Richards et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	† ⁴
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner
Signature

/Don Vo/

Date

Considered

02/28/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	3	of	6
-------	---	----	---

Complete if Known

Application Number	10/775,484
Filing Date	February 10, 2004
First Named Inventor	John Santhoff
Art Unit	2611
Examiner Name	Don Nguyen Vo
Attorney Docket Number	00119

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ^{2, (if known)}			
		US- 2002/0191690	12-2002	Pendergrass et al.	
		US- 2002/0097821	07-25-2002	Hebron et al.	
		US- 2002/0116720	10-21-2003	Cloonan et al.	
		US- 2003/0031191	02-13-2003	El Wardani et al.	
		US- 2003/0129978	07-2003	Akiyama et al.	
		US- 2003/0202537	10-30-2003	Rogerson et al.	
		US- 2003/0228005	12-11-2003	Melick et al.	
		US- 2004/0125859	07-2004	Green et al.	
		US- 2004/0136438	07-15-2004	Fullerton et al.	
		US- 2004/0142663	07-2004	Richard D Roberts	
		US- 2004/0198260	10-2004	Moisch et al.	
		US- 2004/0233972	11-25-2004	Karaoguz	
		US- 2004/0233973	11-25-2004	Fullerton et al.	
		US- 2004/174924	09-09-2004	Lakkis et al.	
		US- 2005/0047379	03-2005	Boyden et al.	
		US- 2005/0131922	06-2005	Kennedy et al.	
		US- 2005/069052	03-31-2005	Carbonari	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner Signature	/Don Vo/
--------------------	----------

Date Considered

02/28/2008

* EXAMINER. Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indicia of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

3. Information submitted in this form is confidential information as required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is guaranteed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/775,484
		Filing Date	February 10, 2004
		First Named Inventor	John Santhoff
		Art Unit	2611
		Examiner Name	Don Nguyen Vo
Sheet 4	of 6	Attorney Docket Number	00119

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		GO HARA, YOSHIHIRO HASE, SHINGO OOMORI, FUJINOBU TAKAHASHI & RYUJI KOHNO, "Foundation Study on the Application of UWB Impulse Radio to ROF", 2002 Society of Electronics, Information and Communication Engineers General Conference, March 27-30, 2002, 2 pages.	
		WIN MOE Z et al., "Ultra-Wide Bandwidth Time-Hopping Spread-Spectrum Impulse Radio for Wireless Multiple-Access Communications", April 2000.	
		STEPHEN GROSSMAN, Existing In-Home Coax Can Support Data Comm, Electronic Design, March 5, 2001, 3 pgs	
		AUTOMATION SECURITIES AND TECHNOLOGY, homeautomation.net, 5 pgs	
		KEN DAVIDSON, CEBus Goes Coax, The Computer Applications Journal, February/March 1992, 3 pgs, Issue 25	
		JULIE JACOBSON, Coax Gaining Favor for In-Home Networks, Home Networking News, June 2002, 5 pgs	
		BUSINESS WIRE, Entropic to Detail 270Mbps Home Networking Over Coax at Communications Design Conference Wednesday, March 31, March 30, 2004, 2 pgs	
		ENTROPIC COMMUNICATIONS, Core Technology Description, entropic-communications.com, 2 pgs	
		JULIE JACOBSON, Coax Gets Consortium of its Own, Home Networking News, May 2001, 2 pgs	
		NOAM GERI, Hybrid Coax-Wireless Multimedia Home Networks Using 802.11 Technology, Texas Instruments White Paper, March 2003, 7 pgs	

Examiner Signature	/Don Vo/	Date Considered	02/28/2008
---------------------------	----------	------------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.V./

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/775,484
Filing Date	February 10, 2004
First Named Inventor	John Santhoff
Art Unit	2611
Examiner Name	Don Nguyen Vo
Attorney Docket Number	00119

Sheet 5 of 6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		COAXSYS, 10/100 Ethernet Products, coaxsys.com, 2pgs	
		PRNEWswire, True Plug & Play Home Multimedia Network Debuts at NCTA, Silicon Strategies, May 4, 2004, 3 pgs	
		YUE GUANG-RONG & GE L I-JIA, "Summaries of Ultra-Widebandwidth Radio", Journal of PLA University of Science and Technology, Volume 3 Number 2, April 2002, 6 pages.	
		China Academic Journal Electronic Publishing House, CATV AND NETWORK, 2001, 3 pages.	
		CRAMER, J.M.; et al., "On the analysis of UWB communication channels", Military Communications Conference Proceedings, 1999. MILCOM 1999. IEEE Volume 2, 31 Oct.-3 Nov. 1999 Page(s):1191 - 1195 vol. 2	
		SCHUTT-AINE, J.E., "High-frequency characterization of twisted-pair cables", Communications, IEEE Transactions on Volume 49, Issue 4, April 2001 Page(s):598 - 601.	
		KAVEHRAD, M., et al., "10 Gbps transmission over standard category-5 copper cable", Global Telecommunications Conference, 2003. GLOBECOM '03. IEEE Volume 7, 1-5 Dec. 2003 Page(s):4106 - 4110 vol.7	
		WIN, M.Z.; SCHOLTZ, R.A., "Impulse radio: how it works", Communications Letters, IEEE, Volume 2, Issue 2, Feb. 1998 Page(s):36-38	
		SIWIAK K, et al., "Ultra-wide band radio: the emergence of an important new technology", Vehicular Technology Conference, 2001. VTC 2001 Spring. IEEE VTS 53rd, Volume 2, 6-9 May 2001 Page(s):1169 -1172 vol 2	
		ENGLER, H.F. JR., "Advanced technologies for ultra wideband system design", Electromagnetic Compatibility, 1993. Symposium Record. 1993 IEEE International Symposium on 9-13 Aug. 1993 Page(s):250 - 253 vol 2	

Examiner Signature	/Don Vo/	Date Considered	02/28/2008
---------------------------	----------	------------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.V./

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/775,484
Filing Date	February 10, 2004
First Named Inventor	John Santhoff
Art Unit	2611
Examiner Name	Don Nguyen Vo
Attorney Docket Number	00119

Sheet 6

of

6

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Belden Cable, Detailed Specifications & Technical Data Category 5E and 6 twisted pair cable, 5 pages	
		SIWIAK, "Ultra-wide band radio: introducing a new technology", Vehicular Technology Conference, 2001. VTC 2001 Spring. IEEE VTS 53rd Volume 2, 6-9 May 2001 Page(s):1088 -1093 vol.2	
		MITCHELL, Broad is the way [ultra-wideband technology]; IEEE Review Volume 47, Issue 1, Jan 2001 Page(s):35-39	
		BRUNO PATTAN, "A Brief Exposure to Ultra-Wideband Signaling", Microwave Journal, December 2003, 5 pages.	
		DAVID LEEPER, "Wireless Data Blaster", Scientific American, May 2002, pages 64-69	

Examiner
Signature

/Don Vo/

Date

Considered

02/28/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /D.V./